

Wokwi Arduino IDE interface showing a project titled "ibm_with_display". The code is for an ESP32-ILI9341-hello.ino file, which implements a motion detection system using a PIR sensor and an ILI9341 display.

```
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26
27 .d loop() {
28   val = digitalRead(inputPin);
29   val2 = digitalRead(inputPin2);
30   if (val == HIGH) {
31     tone(buzzerPin, 100);
32     delay(1000);
33     noTone(buzzerPin);
34     delay(1000);
35     tone(buzzerPin, 100, 1000);
36     delay(2000);
37     if (pirState == LOW) {
38       Serial.println("Motion is detected animal intrusion at location 1");
39       pirState = HIGH;
40       tft.setCursor(20, 120);
41       tft.setTextColor(ILI9341_RED);
42       tft.setTextSize(3);
43       tft.println("Motion is detected animal intrusion at location 1");
44     }
45   }
46   else if (val2 == HIGH) {
47     tone(buzzerPin, 100);
48     delay(1000);
49     noTone(buzzerPin);
50     delay(1000);
51     tone(buzzerPin, 100, 1000);
```

The simulation window shows the hardware components: an ESP32 microcontroller, a PIR Motion Sensor, and an ILI9341 display. The display shows the message "Motion is detected animal intrusion at location 1" in red text. The simulation controls include a play button, a stop button, and a timer showing 00:13.485.

The bottom status bar shows the system tray with icons for Windows, Google Chrome, and other applications. The date and time are 04-11-2023, 10:00 AM.